

Title (en)

Method and device for automatically positioning samples relative to an ellipsometer

Title (de)

Verfahren und Vorrichtung zur automatischen relativen Justierung von Proben bezüglich eines Ellipsometers

Title (fr)

Méthode et dispositif pour l'ajustage automatique d'échantillons relativement à un ellipsomètre

Publication

EP 0950881 A3 20000816 (DE)

Application

EP 99106726 A 19990401

Priority

- DE 19816974 A 19980417
- DE 29815297 U 19980826

Abstract (en)

[origin: US6091499A] Normally, repeated calibration measurements are necessary for the adjustment of the sample and ellipsometer. To achieve an automatic relative adjustment, a sample position detection system that can be adjusted in relation to the ellipsometer and locked in is assigned to the ellipsometer, and where the detection system is connected to an adjusting system that affects the sample table and/or the entire system detection system/ellipsometer. The method for automatic relative adjustment is provided for, that by initially using one sample, the system sample/ellipsometer is adjusted via the symmetry of the detector signal of the ellipsometer, and that the sample position detection system is adjusted and subsequently locked in with the ellipsometer. With all subsequent samples, a relative adjustment of sample and ellipsometer detection system is performed using the signals of the detection system. In particular, the measurements can be performed without moving the sample itself because the adjustment can also be carried out through a single movement of the ellipsometer detection system.

IPC 1-7

G01J 4/00; **G01N 21/21**; **G01J 4/04**

IPC 8 full level

G01B 11/00 (2006.01); **G01B 11/26** (2006.01); **G01J 4/00** (2006.01); **G01J 4/04** (2006.01); **G01N 21/01** (2006.01); **G01N 21/13** (2006.01); **G01N 21/21** (2006.01)

CPC (source: EP US)

G01B 11/26 (2013.01 - EP US); **G01J 4/00** (2013.01 - EP US)

Citation (search report)

- [XY] US 4672196 A 19870609 - CANINO LAWRENCE S [US]
- [DY] EP 0632256 A1 19950104 - IBM [US], et al
- [DA] DE 2430521 A1 19750123 - IBM

Cited by

EP1103784A3; CN113358569A; US6621578B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6091499 A 20000718; EP 0950881 A2 19991020; EP 0950881 A3 20000816; JP 3247660 B2 20020121; JP H11344436 A 19991214

DOCDB simple family (application)

US 29111999 A 19990414; EP 99106726 A 19990401; JP 11116099 A 19990419